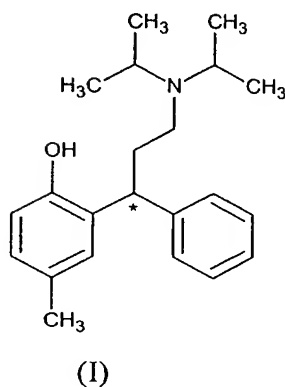


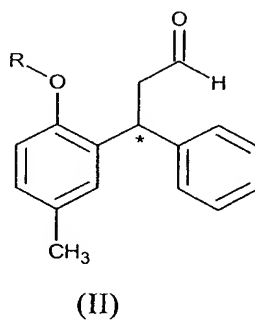
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CLAIMS

1. A process for obtaining 3-(2-hydroxy-5-methylphenyl)-N,N-diisopropyl-3-phenylpropylamine of formula (I)

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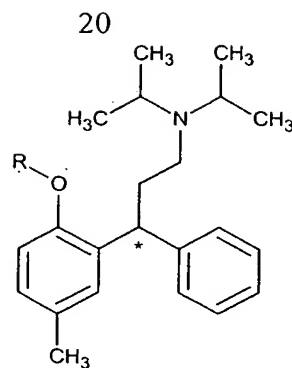


wherein the asterisk indicates an asymmetric carbon atom;
10 its enantiomers or mixtures thereof, or its pharmaceutically acceptable salts,
comprising:
(a) reacting a compound of formula (II)



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wherein R is a hydroxyl protecting group and the asterisk has the previously
indicated meaning;
with diisopropylamine in the presence of a reducing agent to give the compound of
20 formula (III)



wherein R and the asterisk have the previously indicated meanings;

- (b) removing the hydroxyl protecting group from the compound of formula (III)
 5 to obtain the compound of formula (I); and

(c) if so desired, separating the desired (R) or (S) enantiomer, or the mixture of enantiomers, and/or converting the compound of formula (I) into a pharmaceutically acceptable salt thereof.

2. A process according to claim 1, wherein said reducing agent is selected from
 10 NaBCNH₃, NaB(AcO)₃H and hydrogen in the presence of Pd/C.

3. A process according to claim 1, wherein the reaction of the compound of formula (II) with diisopropylamine is carried out in a solvent selected from tetrahydrofuran, dichloromethane, acetonitrile and methanol.

4. A process according to claim 1, further comprising converting said compound
 15 of formula (III) into a salt, and if desired isolating said salt from the compound of formula (III) before removing the hydroxyl protecting group [step (b)].

5. A process according to claim 4, wherein said salt of the compound of formula (III) is an inorganic acid addition salt, preferably the hydrochloride, hydrobromide or sulfate of the compound of formula (III).

- 20 6. A process according to claim 4 or 5, wherein said salt of the compound of formula (III) is N,N-diisopropyl-3-(2-methoxy-5-methylphenyl)-3-phenylpropylamine hydrobromide.

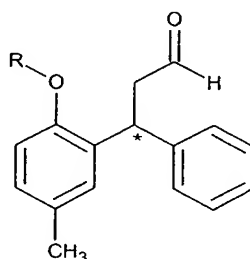
7. A process according to claim 1 or 4, wherein the removal of the hydroxyl protecting group from the compound of formula (III), or from said salt of the compound
 25 of formula (III), is carried out by means of treating with a mineral acid, a Lewis acid or an organic sulfide.

8. A process according to claim 7, wherein the removal of the hydroxyl protecting group from the compound of formula (III), or from said salt of the compound of formula (III), is carried out by means of treating with aqueous hydrobromic acid in acetic acid.

5 9. A process according to claim 1, wherein the obtained compound of formula (I) is selected from the (R) enantiomer, the (S) enantiomer and their mixtures.

10. A process according to claim 1, wherein the separation of the (R) or (S) enantiomers from the compound of formula (I) is carried out by means of fractional crystallization of the salts of said enantiomers with chiral acids.

10 11. A compound of formula (II)



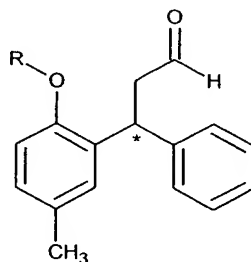
(II)

wherein

15 R is a hydroxyl protecting group; and
the asterisk indicates an asymmetric carbon atom.

12. A compound according to claim 8, wherein R is methyl.

13. A process for obtaining a compound of formula (II)



(II)

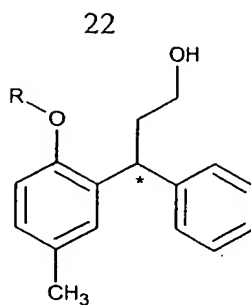
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wherein

R a hydroxyl protecting group; and

the asterisk indicates an asymmetric carbon atom;

comprising oxidizing the alcohol of formula (IV)



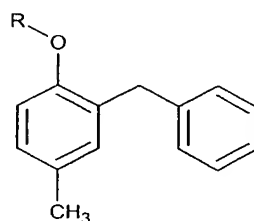
(IV)

wherein R and the asterisk have the previously indicated meanings.

14. A process according to claim 13, wherein the oxidation of the alcohol of
 5 formula (IV) to obtain the aldehyde of formula (II) is carried out using pyridinium
 chlorochromate (PCC), SO_3 .pyridine (SO_3 .pyr), the 2,2,6,6-tetramethylpiperidine
 (TMPP) N-oxide/ NaClO system, or the Swern method.

15. A process according to claim 13, wherein said alcohol of formula (IV) is
 obtained by reacting a compound of formula (V)

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(V)

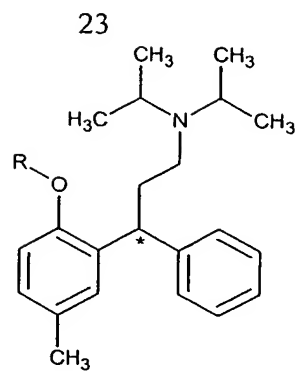
wherein

- 15 R is a hydroxyl protecting group;

with ethylene oxide in the presence of a strong base, in a solvent.

16. A process according to claim 15, wherein said strong base is selected from
 the group constituted by t-BuOK, BuLi, NaH, NaNH_2 and MeONa, and said solvent is
 selected from the group constituted by dimethylsulfoxide, dimethylformamide,
 20 tetrahydrofuran and dioxane.

17. An acid addition salt of a compound of formula (III)



wherein

R is a hydroxyl protecting group; and

5 the asterisk indicates an asymmetric carbon atom.

18. A salt according to claim 17, wherein in the compound of formula (III), R is methyl.

19. A salt according to claim 17, selected from the hydrochloride, hydrobromide and sulfate of the compound of formula (III).

10 20. A salt according to claim 19, characterized in that it is N,N-diisopropyl-3-(2-methoxy-5-methylphenyl)-3-phenylpropylamine hydrobromide.